USGS

Basin Characteristics for New York Streamflow Estimation Tool

Basin Characteristic	Source
Drainage area (mi^2)	Digital Elevation Model (DEM)
Mean basin elevation (ft)	Digital Elevation Model (DEM)
Maximum basin elevation (ft)	Digital Elevation Model (DEM)
Minimum basin elevation (ft)	Digital Elevation Model (DEM)
Basin at elevation greater than 500 ft (percent of basin area)	Digital Elevation Model (DEM)
Basin at elevation greater than 1000 ft (percent of basin area)	Digital Elevation Model (DEM)
Basin at elevation greater than 2000 ft (percent of basin area)	Digital Elevation Model (DEM)
Main channel length	Digital Elevation Model (DEM)
Slope 10-85 of channel	Digital Elevation Model (DEM)
Slope, lower half of channel	Digital Elevation Model (DEM)
Slope, upper half of channel	Digital Elevation Model (DEM)
Slope ratio	Digital Elevation Model (DEM)
Lag factor	Digital Elevation Model (DEM)
Mean basin slope (degrees)	Digital Elevation Model (DEM)
Mean annual runoff	Randall 1996
Seasonal maximum snow depth, 50^{th} percentile	Cember and Wilks 1993
X location of basin outlet (UTM zone 18N m)	Digital Elevation Model (DEM)
Y location of basin outlet (UTM zone 18N m)	Digital Elevation Model (DEM)
X location of basin centroid (UTM zone 18N m)	Digital Elevation Model (DEM)

Basin Characteristic	Source
Y location of basin centroid (UTM zone 18N m)	Digital Elevation Model (DEM)
Urban (percent of basin area)	National Land Cover Database 2006 (NLCD2006)
Water (percent of basin area)	National Land Cover Database 2006 (NLCD2006)
Forested (percent of basin area)	National Land Cover Database 2006 (NLCD2006)
Wetland (percent of basin area)	National Land Cover Database 2006 (NLCD2006)
Agricultural (percent of basin area)	National Land Cover Database 2006 (NLCD2006)
Impervious surface (percent of basin area)	National Land Cover Database 2006 (NLCD2006)
Overland flow distance (m)	Digital Elevation Model (DEM)
Riparian zone (mi^2)	Digital Elevation Model (DEM)
Wetness Index (unitless)	Digital Elevation Model (DEM)
Elevation of basin outlet (ft)	Digital Elevation Model (DEM)
Elevation of basin centroid (ft)	Digital Elevation Model (DEM)
Mean annual precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean January precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean February precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean March precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean April precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean May precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean June precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean July precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals

Basin Characteristic	Source
Mean August precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean September precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean October precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean November precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean December precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean annual maximum temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum January temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum Febrary temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum March temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum April temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum May temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum June temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum July temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum August temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum September temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum October temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum November temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean maximum December temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean annual minimum temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum January temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals

Basin Characteristic	Source
Mean minimum Febrary temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum March temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum April temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum May temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum June temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum July temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum August temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum September temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum October temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum November temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean minimum December temperature (degrees Celsius)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Mean winter (Dec. - Feb) precipitation (in)	Parameter-elevation Regressions on Independent Slopes Model (PRISM) 1971-2000 800 meter Normals
Underlain by clay (percent of basin area)	Soil Survey Geographic (SSURGO) Database
Underlain by sand (percent of basin area)	Soil Survey Geographic (SSURGO) Database
Underlain by silt (percent of basin area)	Soil Survey Geographic (SSURGO) Database
Underlain by hydrologic soils group A (percent of basin area)	Soil Survey Geographic (SSURGO) Database
Underlain by hydrologic soils group AD (percent of basin area)	Soil Survey Geographic (SSURGO) Database
Underlain by hydrologic soils group B (percent of basin area)	Soil Survey Geographic (SSURGO) Database
Underlain by hydrologic soils group BD (percent of basin area)	Soil Survey Geographic (SSURGO) Database
Underlain by hydrologic soils group C (percent of basin area)	Soil Survey Geographic (SSURGO) Database

Basin Characteristic	Source
Underlain by hydrologic soils group CD (percent of basin area)	Soil Survey Geographic (SSURGO) Database
Underlain by hydrologic soils group D (percent of basin area)	Soil Survey Geographic (SSURGO) Database